

MOUNTING REFERENCE GUIDE

Mindray Monitoring BeneVision N22/N19

CIM Cable Integrated Mounting System





Content

General notes	
How to create part numbers	
Product highlights	
Flush mount for BeneVision N22/N19	
Support arm pivot for BeneVision N22/N19	
Height adjustable arm for BeneVision N22/N19	1
Extended height adjustable arm for BeneVision N22/N19	1
Counter top for BeneVision N22/N19	1
Support arm pivot with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse	1
Height adjustable arm with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse	1
Extended height adjustable arm with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse	
Adapter plate quick release for SMR	2
Support arm pivot for SMR	2
Extended pivot arm light duty for SMR	
Down post for SMR	
Bracket for PC	
Fixings	
Fixings for anaesthesia machines	3
Configuration examples	





General notes

Monitor Adaptations

VESA 75/100 monitor adaptation for BeneVision N22/N19 patient monitor.

Quick Release is used for SMR. The monitor adaption SMR quick release offers tool-free disassembly of the module rack.

Components' grounding

All arms with integrated cable management are equipped with **component grounding**. No grounding is required for arms with external or semi-integrated cable management with cables not being led through joints.

Load capacity

All height adjustable arms have a load capacity of 22 kg / 48.5 lbs. Rear mounted monitor adaptations and horizontally mounted 5" plunge plates accept a maximum monitor weight of 18 kg / 39.7 lbs. An additional 4 kg / 8.8 lbs may be mounted on a down post underneath the front swivel part. Depending on material and tensile factor all weight indications have a 4-fold and/ or 6-fold safety factor according to IEC 60601-1 standards.

Custom-designed solutions and MRI applications

Please contact us for custom-designed solutions.

Product marking

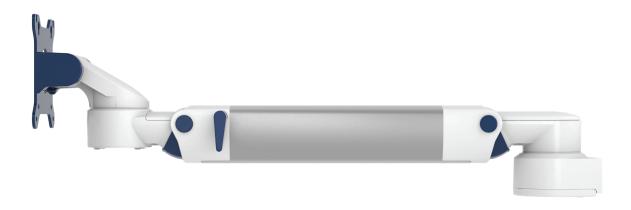
All CIM products are CE marked. As **medical product risk class 1** they are conform with the regulations (EU) 2017/745 (MDR) and IEC 60601-1. Other standards of the IEC 60601 series are not applicable to our products, regardless of their version.

MD A stand-alone product that is already classified as a medical product class 1 before being integrated into an overall medical device. The product is CE-marked. A declaration of conformity is available.

Accessories or spare parts that have no independent function and are therefore not subject to the MDR. These products are not CE-marked. A declaration of conformity is not required.

Warranty

All CIM arms have a 5-year warranty to be free of defects in material and fuctionality from the date of delivery.





How to create part numbers

Part numbers can be easily created by following the steps below:

Please replace the letters in green with the part no. code as per your requirements.

1. Components' grounding:

 $egin{array}{lll} S & = & & \mbox{not grounded} \ A & = & & \mbox{grounded} \ \end{array}$

2. Choose the arm version required:

910G = flush mount 224G / 230G = support arm pivot 431G = height adjustable arm

73130G = extended height adjustable arm
224F / 230F = support arm pivot with W-bracket
431F = height adjustable arm with W-bracket

73130F = extended height adjustable arm with W-bracket

224Q / 230Q = support arm pivot for SMR

= extended pivot arm light duty for SMR

3. Specify where you want to mount the arm and select the fixing (Y):

2F = horizontal rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm

3 = vertical rail 10×25 mm = vertical wall channel

13 = Mindray medical supply units 17 = Amico pendants & headwalls

9 = Löwenstein Medical anaestesia machine





How to create part numbers

4. Choose the colour requested for decorative parts (C):

 $m gr = RAL 7024 \ (graphite grey) \\
m bl = RAL 5013 \ (cobalt blue) \\
m$

5. Choose the colour requested for the aluminium die-cast parts (D):

1 = RAL 9016 (traffic white) 2 = RAL 9002 (grey white)

6. Specify the spring depending on the weight of your monitor/ device - only with height adjustable arms (X):

Please note that the weight range of the individual springs may vary depending on the bracket (X).

Pneumatic Springs Explained:

The weight ranges of the pneumatic springs shown in our catalogues relate to the minimum and maximum weights of the products that can be added to the arm, for a perfectly balanced solution. The weight ranges can vary with the same pneumatic springs, as the overall weights placed on the front of the arms have to be considered. The total weight not only reflects the actual monitor weight, but also includes monitor adaptations, brackets and/ or trays. When choosing the pneumatic spring, please consider the weight of your monitor/ device only.

For VES	SA adaptat	ion	For W-I	oracket	
60	=	2 - 5 kg / 4.4 - 11 lbs			
95	=	4 - 9 kg / 8.8 - 19.8 lbs	95	=	2.5 - 5.5 kg / 5.5 - 12.1 lbs
130	=	7.5 - 13 kg / 16.5 - 28.7 lbs	130	=	6 - 10 kg / 13.2 - 22 lbs
175	=	13 - 16 kg / 28.7 - 35.3 lbs	175	=	11 - 14 kg / 24.3 - 30.9 lbs
220	=	16 - 22 kg / 35.3 - 48.5 lbs	220	=	13 - 16 kg / 28.7 - 35.3 lbs

7. Specify the requested size of the keyboard tray and mouse (T):

Standard	Magnetic	With wrist rest		Dimensions
30	30\$		=	300 x 210 mm / 11.8 x 8.3"
40	40\$		=	400 x 150 mm / 15.7 x 5.9"
50	50\$	50W	=	500 x 200 mm / 19.7 x 7.9"
58	58\$	58W	=	580 x 200 mm / 22.8 x 7.9"
RC			=	480 x 220 mm (retractable mouse tray left/right 226 mm / 8.9")

Example

01 Grounding		02 Arm version		03 Fixing	04 & 05 Colour		06 Spring tension		07 Keyboard tray
Α	-	431F	-	Υ	CD	_	Χ	_	T
Α	-	431F	-	4S	gr1	_	95	_	30



Product highlights

Non-height adjustable arm

Pivot and extended pivot arms offer full cable integration and easy cleaning for infection control in all critical care areas in the clinical environment. Our 5-years warranty guarantees reliable, trouble-free and maintenance-free operation. The swivel function at the fixing point as well as the tilt/swivel function of the monitor adaptation offers optimum positioning of your device. The extended pivot arm is a two-part arm with central pivot point between the two arm sections. All bottommounted monitors have the safety feature of a 20° tilt stop.

Height adjustable arm

The height adjustable arm offers **full cable integration**, one-wipe clean surfaces and our **5-year warranty** on the entirety of the product. Vertically and horizontally adjustable, the arm offers optimal positioning of your device. A constant viewing angle when vertically adjusted is guaranteed by a parallel linkage. **Weight-optimized springs counter-balance** the monitor without making any adjustments. All bottom-mounted monitors have the safety feature of a **20° tilt stop**. Individual rotational stops may be integrated in any joint.

To provide the perfect combination of arm and monitor, the CIM articulated height adjustable arm has a simple quarter-turn lock to hold the arm safely in position when removing the monitor. Furthermore the arm is equipped with the unique safety feature of a slow-release gas spring. Should anybody try to remove the monitor before locking the arm in position, the arm will only rise at a slow and even tempo.







Flush mount for BeneVision N22/N19

MD



Monitor adaption VESA 75/100

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Max. load capacity support arm 18 kg / 39.7 lbs Max. load monitor adaptation 18 kg / 39.7 lbs **Product weight** 1 kg / 2.2 lbs

Part number S-910G-Y.CD

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units







Adapter for Amico pendants & headwalls

details page 31



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

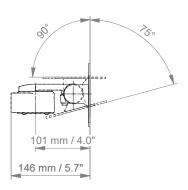




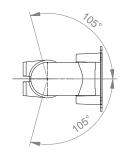
Flush mount for BeneVision N22/N19

Technical data

SIDE VIEW



TOP VIEW

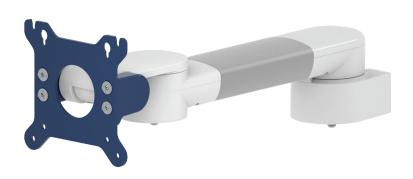






Support arm pivot for BeneVision N22/N19





Monitor adaption VESA 75/100

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Max. load capacity support arm18 kg / 39.7 lbsMax. load monitor adaptation18 kg / 39.7 lbs

Product weight arm type 240 arm type 300 1.8 kg / 4.0 lbs 1.9 kg / 4.2 lbs

Part number arm type 240 arm type 300 A-224G-Y.CD A-230G-Y.CD

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

Adapter for Löwenstein Medical anaesthesia machines

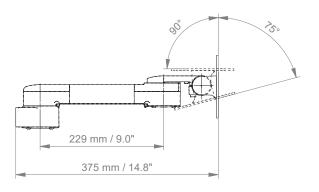




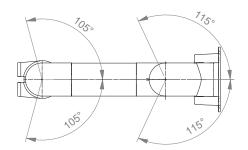
Support arm pivot for BeneVision N22/N19

Technical data - arm type 300

SIDE VIEW



TOP VIEW











Monitor adaption VESA 75/100

Height adjustment slow-flowing spring, parallel linkage for a constant viewing angle

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Product weight 3.8 kg / 8.4 lbs

Balancing range 950 N: N19/ N22

1300 N: N19/ N22 with PC

N19/ N22 with SMR mounted on down post

1750 N: N19/ N22 with PC and SMR

Part number A-431G-Y.CD_X

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

Adapter for Löwenstein Medical anaesthesia machines

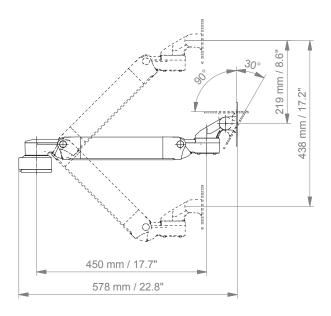




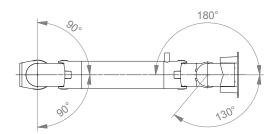
Height adjustable arm for BeneVision N22/N19

Technical data

SIDE VIEW



TOP VIEW









Monitor adaption VESA 75/100

Height adjustment slow-flowing spring, parallel linkage for a constant viewing angle

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Max. load capacity support arm22 kg / 48.5 lbsMax. load monitor adaptation18 kg / 39.7 lbsProduct weight4,8 kg / 10.6 lbs

Balancing range 950 N: N19/ N22

1300 N: N19/ N22 with PC

N19/ N22 with SMR mounted on down post

1750 N: N19/ N22 with PC and SMR

Part number A-73130G-Y.CD_X

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

::

Adapter for Löwenstein Medical anaesthesia machines

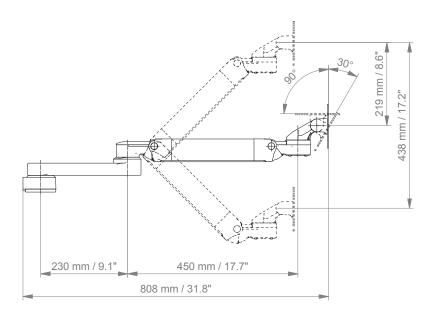




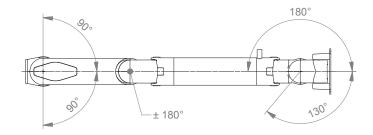
Extended height adjustable arm for BeneVision N22/N19

Technical data

SIDE VIEW



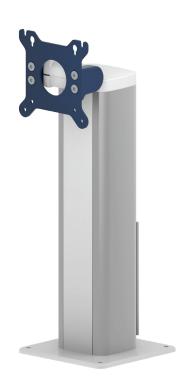
TOP VIEW





Counter top for BeneVision N22/N19





Monitor adaption

Colours to choose

Max. load monitor adaptation

Part number

All free-standing counter tops have to be tip-tested for stability depending on the weight of the

VESA 75/100

decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey aluminum parts RAL 9016 traffic white / RAL 9002 grey white

 $18 \, kg / 39.7 \, lbs$

Counter top with base plate to mount to desk or even surfaces (see illustration)

T-CG-60.CD_350 height 350 mm / 13.8"

Counter top free-standing

T-CG-62.CD_350 height 350 mm / 13.8"

Vertical mount for PC (to mounted on rear side of the column) MD-PC-4Z.1 (details see page 29)

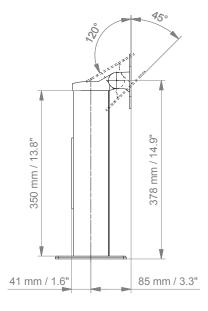




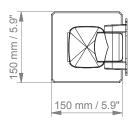
Counter top for BeneVision N22/N19

Technical data - with base plate

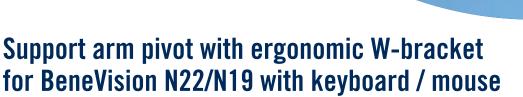
SIDE VIEW



TOP VIEW









Monitor / keyboard adaption

W-bracket VESA 75/100 and keyboard / mouse tray

Colours to choose

decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Max. load capacity support arm Max. load monitor adaptation

Product weight

Keyboard tray

17 kg / 37.5 lbs arm type 240 arm type 300

18 kg / 39.7 lbs

3.4 - 5.0 kg / 7.5 - 11.0 lbs 3.6 - 5.1 kg / 7.9 - 11.2 lbs (according to dimensions of keyboard tray)

300 x 210 mm, 400 x 150 mm, 500 x 200 mm, 580 x 200 mm, 480 x 220 mm

11.8 x 8.3", 15.7 x 5.9", 19.7 x 7.9", 22.8 x 7.9", 18.9 x 8.7"

Part number

arm type 240 arm type 300 A-224F-Y.CD_T A-230F-Y.CD_T

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

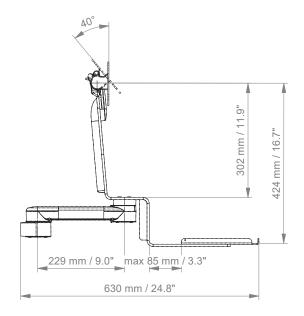
Adapter for Löwenstein Medical anaesthesia machines



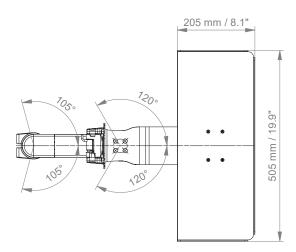


Technical data - arm type 300, keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW



TOP VIEW









Monitor adaption W-bracket VESA 75/100 and keyboard / mouse tray

Height adjustment slow-flowing spring, parallel linkage for a constant viewing angle

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Max. load capacity support arm18 kg / 39.7 lbsMax. load monitor adaptation17 kg / 37.5 lbs

Product weight 5.3 - 6.9 kg / 10.8 - 15.2 lbs (according to dimensions of keyboard tray)

Keyboard tray 300 x 210 mm, 400 x 150 mm, 500 x 200 mm, 580 x 200 mm, 480 x 220 mm

11.8 x 8.3", 15.7 x 5.9", 19.7 x 7.9", 22.8 x 7.9", 18.9 x 8.7"

Balancing range 1300 N: N22/N19 display only / 1750 N: N22/N19 with PC

Part number A-431F-Y.CD_X_T

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

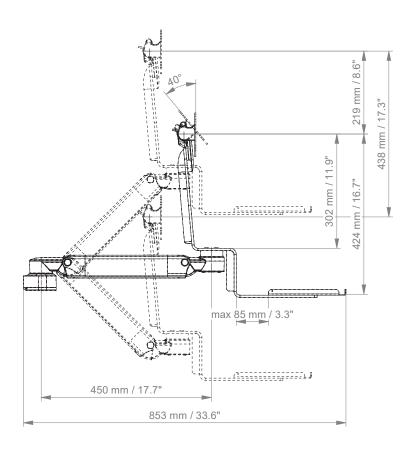
Adapter for Löwenstein Medical anaesthesia machines



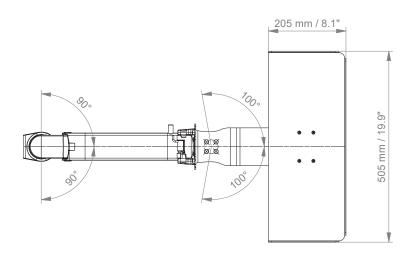


Technical data - keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW



TOP VIEW









MD

Monitor adaption

Height adjustment slow-flowing spring, parallel linkage for a constant viewing angle

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

Max. load capacity support arm 18 kg / 39.7 lbs Max. load monitor adaptation 17 kg / 37.5 lbs

Product weight 6.4 - 8.0 kg / 14.1 - 17.6 lbs (according to dimensions of keyboard tray)

Keyboard tray 300 x 210 mm, 400 x 150 mm, 500 x 200 mm, 580 x 200 mm, 480 x 220 mm

11.8 x 8.3", 15.7 x 5.9", 19.7 x 7.9", 22.8 x 7.9", 18.9 x 8.7"

Balancing range 1300 N: N22/N19 display only / 1750 N: N22/N19 with PC

Part number A-73130F-Y.CD_X_T

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp



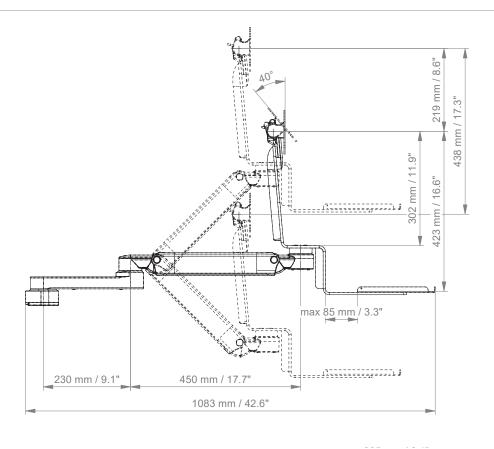
Adapter for Löwenstein Medical anaesthesia machines

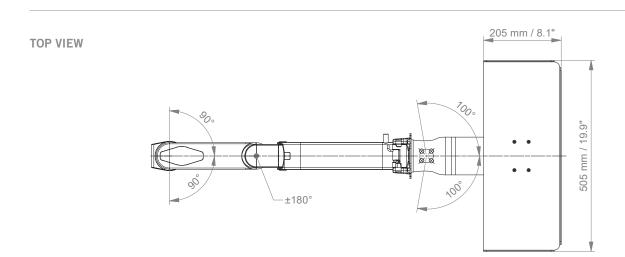




Technical data - keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW







Adapter plate quick release for SMR



MQ

Adapter plate quick release (MD-QR-SMR.1)

The adapter plate matches the hole pattern of the SMR module housing and is included in the package. The adapter plate has to be ordered separately.







Support arm pivot for SMR





Monitor adaption

Colours to choose

Max. load capacity support arm Max. load monitor adaptation Product weight

Part number

quick release base plate

decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey aluminum parts RAL 9016 traffic white / RAL 9002 grey white

18 kg / 39.7 lbs 18 kg / 39.7 lbs

 $\begin{array}{ll} \text{arm type 240} & \text{arm type 300} \\ 1.8 \text{ kg} \, / \, 4.0 \text{ lbs} & 1.9 \text{ kg} \, / \, 4.2 \text{ lbs} \end{array}$

arm type 240 arm type 300 A-224Q-Y.CD A-230Q-Y.CD

MD-QR-SMR.1 quick release adapter plate SMR

Fixings



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



Fixed pole clamp

Adapter for Löwenstein Medical anaesthesia machines

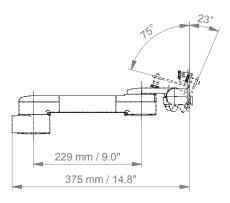




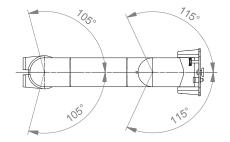
Support arm pivot for SMR

Technical data - arm type 300

SIDE VIEW



TOP VIEW

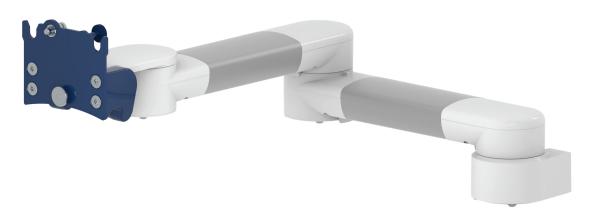






Extended pivot arm light duty for SMR





Monitor adaption quick release base plate

Colours to choose decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey

aluminum parts RAL 9016 traffic white / RAL 9002 grey white

8 kg / 17.6 lbs Max. load capacity support arm 8 kg / 17.6 lbs Max. load monitor adaptation **Product weight** 2.8 kg / 6.2 lbs

A-33030Q-Y.CD

MD-QR-SMR.1 quick release adapter plate SMR

Fixings



Part number

Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 31 and 32



Vertical rail clamp



Universal pole clamp



1F Fixed pole clamp

Adapter for Löwenstein Medical anaesthesia machines

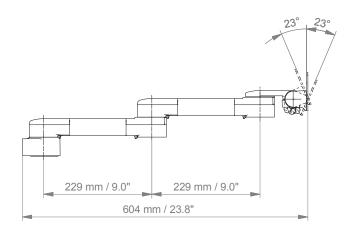




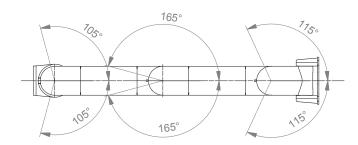
Extended pivot arm light duty for SMR

Technical data

SIDE VIEW



TOP VIEW











Part number

rotatable, to attach to non-height adjustable arms

including SMR adapter plate quick release / SMR (page 23)

Z-DPR-SMR-70.gr1_400 length 400 mm / 15.8" Z-DPR-SMR-70.gr1_300 length 300 mm / 11.8" Z-DPR-SMR-70.gr1_150 length 150 mm / 5.9"

rotatable, to attach to height adjustable arms

including SMR adapter plate quick release / SMR (page 23)

Z-DPR-SMR-71.gr1_400 length 400 mm / 15.8" Z-DPR-SMR-71.gr1_300 length 300 mm / 11.8" Z-DPR-SMR-71.gr1_150 length 150 mm / 5.9"





Bracket for PC - wall channel





Fixed PC bracket

adapter plate for existing wall channel

Part number

MD-PC-4Z.1





Bracket for PC - european rail or pole





Fixed PC bracket adapter plate for European rail or pole

Part number MD-PC-WK-Y.1

Fixings



Vertical rail clamp

details page 31







Horizontal rail clamp



Fixings



Illustration	Description	Notes	Weight	Part no.
	Adapter for vertical wall channel	To mount to CIM wall channel (compatible with GCX channel) Please order separately: CIM wall channel, see catalogue accessoires	0.6 kg / 1.3 lbs	4\$
: :	Horizontal rail clamp	To mount to horizontal European rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm	1.1 kg / 2.4 lbs	2F
	Vertical rail clamp	To mount to vertical European rail 10 x 25 mm	0.5 kg / 1.1 lbs	3
100	Universal pole clamp	V-block to mount to pole ø 23 - 40 mm / 0.9 - 1.6"	0.6 kg / 1.3 lbs	1V
	Fixed pole clamp	To mount to pole ø 25 mm / 1.0" To mount to pole ø 30 mm / 1.2" To mount to pole ø 35 mm / 1.4" To mount to pole ø 38 mm / 1.5"	0.3 kg / 0.7 lbs 0.4 kg / 0.9 lbs 0.4 kg / 0.9 lbs 0.4 kg / 0.9 lbs	1 1B 1F 1C
6 6 6 6 6 6 6	Adapter medical supply units	For Mindray medical supply units	0.8 kg / 1.8 lbs	13
+ u ₀	Adapter pendants & headwalls	For Amico pendants & headwalls	0.6 kg / 1.3 lbs	17







Illustration	Description	Notes	Weight	Part no.		
	Adapter for Löwenstein Medical anaesthesia machines	Adapter for Leon / Leon plus	0.4 kg / 0.9 lbs	9		
lf your anaesthes	ia machine does not have a s	ide channel already mounted to the machine, please ord	er the following in ad	dition to 4S:		
	Adapter for Dräger	Dräger Primus / Julian / Cato / Fabius GS / Zeus side channel adapter L 127 mm / 5" side channel adapter L 320 mm / 12.6"	0.5 kg / 1.1 lbs 1.0 kg / 2.2 lbs	DR-J01 DR-J02		
90	Adapter for GE	GE Avance / Aespire / Aestiva side channel adapter L 200 mm / 7.9"	0.5 kg / 1.1 lbs	DX-AES-0		





Configuration examples



Mounting	Description	Part no.
BeneVision N22/N19	CIM height adjustable arm with ergonomic W-bracket for monitor (VESA 75/100) and keyboard tray 580 x 200 mm / 22.8 x 7.9"	A-431F-4V.bl1_130_58
SMR	CIM pivot arm with SMR, arm length 300 mm / 11.8" Dual cable hook to mount underneath pivot arm	A-230SMR-4V.bl1 Z-KH2-70.1
PC	Bracket for PC	MD-PC-4Z.1
Optional to order	CIM wall channel (including channel cover and end caps) $L = 480 \text{ mm } / 18.9^{\circ}$ $L = 720 \text{ mm } / 28.4^{\circ}$ $L = 960 \text{ mm } / 37.8^{\circ}$	Z-WK.w_480 Z-WK.w_720 Z-WK.w_960



Configuration examples



Mounting	Description	Part no.
BeneVision N22/N19	CIM pivot arm for monitor (VESA 75/100), arm length 230 mm / 9.1" Down post, length 400 mm / 15.8", to mount SMR	A-230G-4V.bl1 Z-DP-SMR-70.bl1_400
Optional to order	CIM wall channel (including channel cover and end caps) $L = 480 \text{ mm } / 18.9"$ $L = 720 \text{ mm } / 28.4"$ $L = 960 \text{ mm } / 37.8"$	Z-WK.w_480 Z-WK.w_720 Z-WK.w_960



CIM med GmbH

Euro-Industriepark Margot-Kalinke-Str. 9 80939 Munich / Germany

+49 89. 978 94 08-0

F +49 89. 978 94 08-29

M info@cim-med.com

www.cim-med.com

